

Aviation Education News



Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

August 2006

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2007 International Aviation Art Contest

"Airfield"

Located on the outskirts of towns and cities across the world, a special place awaits people who keep their eyes to the skies. With runways of grass or concrete, the airfield offers a world of adventure, excitement, and fun.

While some people use the field to travel to other cities, many show up to play in the sky. They sightsee by balloon, soar through the air in gliders, or motor across the sky in ultralights. Skydivers use aircraft to get up into the air and choose the thrill of returning to the ground on their own.

Aerobatic pilots loop and dive their planes as spectators cheer from the ground. At a slower speed, paragliders sail through the air and glide to soft landings on grassy strips.



With feet firmly planted on the ground, many watch the excitement overhead. Modelers also experience the sky from the ground as they fly the world's classic planes and fastest jets, in miniature. Aeromodelling brings the past to life and lets girls and boys, men and women, fly their own airplanes from airfields built just for these smaller versions of real aircraft.

Now it's your turn to join in the fun. Take a trip to an airfield near you or imagine one of your very own. Grab a brush, crayon, or pen and capture the excitement and the possibility of the world's airfields.

Submit your entry on the theme "Airfield" to the Virginia Department of Aviation at the address below. Artwork must be postmarked by **January 12, 2007**. For more information and rules see page 3.

Send artwork to:
Virginia Department of Aviation
Attn: International Aviation Art Contest
5702 Gulfstream Road
Richmond, Virginia 23250-2422

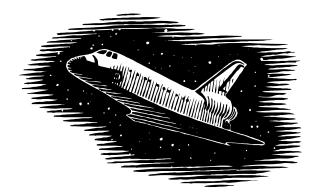
PRESIDENT'S NOTES

The NASA Langley Research Center's Office of Communication & Education (OCE) is continuing to work in collaboration with the Virginia Department of Aviation, and the Virginia Department of Education to maintain two-way communication between federal and state education efforts.

AIAA has openings for positions for teachers to become "Educator Associates". The benefits are as follows: Participation in local AIAA activities, attend AIAA conferences free, tap into AIAA clearinghouse of aerospace information, gain recognition for efforts in education and lastly, qualify for up to a \$200 grant to push your science, math, or related academic agenda forward. They have developed innovative programs for obtaining an AIAA Foundation Education Classroom Aid Grant. For information contact: Lisa Bacon, 800-639-AIAA, ext. 527 or via e-mail lisab@aiaa.org

The Virginia Experimental Aircraft Association is having its annual Fly-In at the Dinwiddie Airport in Petersburg, VA on 9/30-10/01/06. We will be staffing a student activity tent with lots of make-and-take activities that can be used in the classroom. I hope to see you there.

Peter D. Thomas (Tessada Associates, Inc.) Aerospace Education Programs Manager Office of Education NASA Langley Research Center



VASEFAVIATION EDUCATION NEWS

is published quarterly in support of aviation education in the Commonweath of Virginia by the Virginia Department of Aviation.

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Please send story ideas, photographs, calendar events, and other items for possible inclusion to:

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5702 Gulfstream Road
Richmond, Virginia 23250-2422
(804) 225-3783
(804) 236-3635 (FAX)
betty.wilson@doav.virginia.gov (E-mail)
http://www.doav.virginia.gov (Web site)



VASEFPURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

2007 International Aviation Art Contest

Contest Information

This Year's Deadline

Entries must be postmarked by Friday, January 12, 2007, and must be sent to your state's sponsor office (see return address on this brochure).

This Year's Theme

This year's theme is "Airfield." Artwork will be judged, at least in part, for its creative use of this year's theme in relation to the aviation world.

Eligibility

All children in the age groups shown below are encouraged to participate in the Contest, even if they are related to officials or employees of the FAI or any of its member organisations. Participation in the National contests is limited to residents of that country.

Age Groups

Entries will be judged in three classes (determined by the age of the entrant on December 31, 2006). I. Ages 6 to 9; II. Ages 10 to 13; III. Ages 14 to 17

State Awards

Entries in each age group will be judged and state winners and runners-up will be selected. Winners will receive a certificate and recognition from their state. The top three entries in each age group will be forwarded to Washington, D.C., to participate in the national competition.

National Awards

A national winner and two runners-up will be selected from each age group. All national winners will receive certificates, ribbons and a framed reproduction of their artwork.

International Awards

The national winners and runners-up in each age group will be forwarded to FAI headquarters for international judging. Winners of the international competition will receive certificates and gold, silver, or bronze medals.

Format

The required format is A3 (297 x 420 mm or 113/4 X 16 inches) or, if this is unobtainable in your country, the nearest possible equivalent.

Artwork must **NOT** be framed or outlined with borders.

The following media are NOT permitted:

No pencil, charcoal or other non-permanent medium may be used; no computer-generated artwork is permitted; no collage work involving the use of photocopies is permitted.

Markings

The following details should be clearly shown on the back of art: Title, family name, given name, address, date of birth, country of residence, name and address of school which child attends, certificate of authenticity.

Reproduction Rights

Once received, entries will become and remain the property of the Federation Aeronautique Internationale (FAI) or state sponsor and may be used for a variety of purposes.

Sponsors

The 2007 International Aviation Art Contest is sponsored by the National Aeronautic Association,

National Association of State Aviation Officials, National Aeronautics and Space Administration, and the Federal Aviation Administration, in cooperation with the Federation Aeronautique Internationale (FAI), to motivate and encourage young people of FAImember nations to become more familiar with and participate in aeronautics, engineering, and science.

Connect Block! Descriped

Home Address* (required)

School Name

School Address

School phone number

Name of entrant

Mirrord () Heat

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Shows of autoust

Contification and to be aligned by the entrant's treather

Teacher, parent, or guardian's signature' (required)

Certificate signed by artist's: Diffeacher Different Diffeontian

Entries must be postmarked by January 12, 2007.

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"The units 's date of birth, address, and orbifolisms number and exquired R oligibility, holds condition please make senals show fields are filled out o

Teacher, parent, gustdian print name here

Certificate of Authenticity

O 6-9 O IB-13 O IB-12 Age: Group (age on 12-31-06)

Contest Rules

Medium

All artwork must be done by hand (or, in the case of handicapped children, by foot or mouth).

Any of the following media are permitted:

Watercolor, acrylic, oil paint, indelible marker pens, felt-tip pens, soft ball-point pens, indelible ink, Crayola, or any similar indelible medium.

2007 Virginia Aviation Teachers Grants

Have you ever considered enhancing your students' learning experience by integrating aviation into your teaching?

Have you had a great idea for a lesson plan or other class activity with an aviationrelated theme that you felt would benefit your students but couldn't implement because of lack of funding?

The Virginia Department of Aviation's Teachers Grant Program may be able to assist you!

Guidelines:

- 1. A maximum of one grant per individual teacher and/or school per school year is allowed.
- 2. The total amount requested for each grant must not be more than \$250.00. There is a cap on total grant funding for each school year. Grant applications will be ranked and funded until this cap has been reached.
- 3. Funds must be used before the end of the school year in which they are approved.
- 4. The requirements listed on the next page must be met in order to apply and, once selected, to be reimbursed.

Requirements:

- 1. Classroom teachers in grades K-12 are eligible to apply. Grants are available to teachers in any discipline provided that the lesson involves aviation.
- 2. Applications for the 2006/07 school year must be completed and postmarked not later than December 1, 2006. Applications will be evaluated and successful applicants will be notified in January.
- 3. Successful applicants must complete their program before the end of the year in which the grant is awarded.

4. Successful applicants must agree to submit a final report to the Virginia Department of Aviation at the completion of the program (not later than the end of the school year in which the grant is awarded).

This report must include:

- a. a summary describing the results of the program,
- b. any lesson plans developed (at least one is required),
- c. how many students benefited from the program,
- c. a materials list with costs, and
- d. receipts for items purchased.

This report must be received before reimbursement will be made.

5. Lesson plans and program summaries may be published in Department of Aviation publications (with credit given).

Application forms will be mailed to Virginia public schools in the fall and are also available on the Department of Aviation's website.

Return completed application form to:

Virginia Department of Aviation Attn: Betty P. Wilson 5702 Gulfstream Road Richmond, Virginia 23250-2422 Telephone: (804) 225-3783, ext. 107 FAX: (804) 236-3635

E-Mail: wilson@doav.virginia.gov



National Air and Space Museum Calendar

Saturday, September 23, 2006
7:00 p.m. - 11:00 p.m. (Sky Meadows
State Park, near Paris, Virginia)
Saturday Star Party
Sean O'Brien

Saturday, October 14, 2006 10:00 a.m. - 3:00 p.m. (Steven F. Udvar-Hazy Center) Family Day - Mission to Space

Wednesday, October 18, 2006 8:00 p.m. (National Mall Building)
General Electric Aviation Lecture
An Evening with R. A. "Bob" Hoover
Admission: Free
Reservations Required

Saturday, October 21, 2006 10:00 a.m. - 3:00 p.m. (National Mall Building) Family Day

Conquistadores de Cielo Celebrating the Centennial of Alberto Santos-Dumont Admission: Free

Saturday, October 21, 2006 6:15 p.m.
- 11:00 p.m. (Sky Meadows State
Park, near Paris, Virginia)
Saturday Star Party
Sean O'Brien

Saturday, November 11, 2006
5:00 p.m. - 11:00 p.m. (Sky Meadows
State Park, near Paris, Virginia)
Saturday Star Party
Sean O'Brien

Monday, November 13 through
Friday, November 17 10:00 a.m. 3:00 p.m. (Steven F. Udvar-Hazy
Center)
Celebrate National Children's Book
Week
Flights of Fancy-Stories for Children
3 to 7 Years Old

Saturday, November 18, 2006 10:00 a.m. - 3:00 p.m. (National Mall Building) Family Day Are We Alone in the Universe?

For more information visit: www.nasm.si.edu.

John R. Lillard VAOC Aviation Scholarship

A letter from Bryan Elliott, Chairman, 2007 John R. Lillard VAOC Aviation Scholarship Committee --

Dear Prospective Scholarship Applicant,

On behalf of the Virginia Airport Operators Council (VAOC), I would like to express my appreciation for your interest in the John R. Lillard VAOC Scholarship Program.

The scholarship you are seeking is named for a friend, aviation enthusiast and great humanitarian. Through his leadership positions with the Capital Region Airport Commission (which operates Richmond International Airport), Chesterfield County Airport, and Eastern Airlines, John always displayed a zeal and thirst for life, aviation, family and friends. Because of his great spirit, we seek to share and commemorate his unique and special gifts with others. It is also through the kind and generous support of many of the members of the VAOC that this scholarship program is available to assist future aviation leaders as well as honor John. To this end, I am honored that you are contemplating applying for our 2007 scholarship award in the amount of \$3,000.00.

Attached please find a copy of our application for your review and information. In order for your application to be considered, you must be a Virginia high school senior, have at least a 3.75 unweighted GPA; be planning a career in the field of aviation, and must be enrolled or accepted into an aviation related program at an accredited college. It is also necessary for you to:

- 1. Complete an application form.
- Have your guidance counselor or other high school official sign all required certifications.
- Attach an official copy of your current high school transcript and a copy of acceptance letters or other verification of enrollment or acceptance into a postsecondary institution.
- 4. Attach to the application a typed, double-spaced essay (350 word minimum/500 word maximum) on the subject: "Why I Wish to Pursue a Career in Aviation."
- Attach recommendation letters (no more than three) and a typed (one-page maximum) sheet listing both school-related and extracurricular activities demonstrating accomplishments and leadership capabilities.
- 6. Mail all documents to: VAOC Scholarship, c/o Virginia Department of Aviation, Attn: Betty Wilson, 5702 Gulfstream Road, Richmond, VA 23250-2422.

The deadline for receipt of applications with all documentation is Friday, February 20, 2007. Applications will be evaluated as follows: 35% Scholarship (GPA), 30% Essay, 20% Accomplishments and Leadership and 15% demonstrated financial need for scholarship.

Thank you again for your interest in the John R. Lillard Virginia Airport Operators Council Scholarship Program. Best wishes for continued success in your academic endeavors.

Willard G. Plentl Aviation Scholarship Program

Willard G. Plentl, Sr. was born in Houston, Texas and began pilot training in the Army Air Corps in 1942. Mr. Plentl had a successful career as a military pilot that included serving during the Korean War and flying a variety of aircraft from trainers to bombers to fighters.

After his retirement from the Air Force as a Lieutenant Colonel in 1962, Mr. Plentl accepted a position with the Commonwealth of Virginia as Assistant Director, Division of Aeronautics, Virginia State Corporation Commission, and in 1964 he became Director of Aeronautics. In 1970, he was a member of the President's Aviation Advisory Commission which helped shape America's current aviation system.

Mr. Plentl retired from the Virginia Department of Aviation in 1984 and was elected to the Virginia Aviation Hall of Fame that same year. Mr. Plentl passed away on May 19, 2005 leaving behind a devoted family and a record of outstanding service to aviation.

In honor of this remarkable gentleman and his 22 years of service to the Commonwealth of Virginia, this scholarship program has been established. The Willard G. Plentl Aviation Scholarship, in the amount of \$1,000, will be awarded to a Virginia High School senior who is planning an aviation career in a non-engineering area.

A certification of acceptance into a non-engineering, aviation-related postsecondary education program is required. Examples of non-engineering aviation careers include (but are not limited to) pilots, aviation maintenance technicians, aviation managers, etc.

Scholarship applicants must have an unweighted GPA of at least 3.5. One scholarship of \$1,000 will be awarded each year and is not renewable.

To Apply:

- 1. Complete an application form.
- 2. Have your guidance counselor or other high school official sign all required certifications.
- 3. Attach an official copy of your current high school transcript and a copy of acceptance letters or other verification of enrollment or acceptance into a post-secondary institution.
- 4. Attach to the application a typed, double-spaced essay (350 word minimum/500 word maximum) on the subject: "Why I Wish to Pursue a Career in Aviation."
- 5. Attach recommendation letters (no more than three) and a typed (one-page maximum) sheet listing both school-related and extracurricular activities demonstrating accomplishments and leadership capabilities.
- 6. Mail all documents to: Plentl Scholarship, c/o Virginia Department of Aviation, Attn: Betty Wilson, 5702 Gulfstream Road, Richmond, VA 23250-2422.

Application forms for both scholarships will be mailed to all high school guidance counselors in the fall and are also available on the Department of Aviation's web site.

Aviation Education Corner

Flying Wing

SUBJECT: Aeronautics **TOPIC:** Gliding flight

DESCRIPTION: An acrobatic flying wing is constructed from plastic foam trays obtainable from a supermarket.

CONTRIBUTED BY: Norm Poff (adapted from a design by Paul Mcilrath.)

EDITED BY: Roger Storm, NASA Glenn Research Center

MATERIALS:

Plastic foam meat or pastry tray, about 10 inches long, from a supermarket

Sharp cutting knife and cutting surface Emery board, sandpaper, or metal file

Cellophane tape

Dime

Marker pen Scissors





PROCEDURE: Template

- 1. Cut out and trace the Flying Wing pattern on the bottom of the foam tray. Position the pattern so that the shaded wing tips lay on one of the upturned edges of the tray. When cut out, the wing tips will have a permanent upward bend.
- **2.** With the emery board, sandpaper, or metal file, shape the upper surface of the Flying Wing into an airfoil. Use the cross-section diagrams as a guide for shaping. Take your time and try to keep both sides symmetrical. This part is better done outdoors.
- **3.** Tape the dime to the underside of the wing so that it is positioned just forward of the center mark. It will probably be necessary to adjust the position of the dime a few times to get the best position for flight. The Flying Wing is now ready for test flights.

BALANCING AND FLYING THE FLYING WING:

Go to an open area and hold the Flying Wing in your hand as shown in the diagram. Toss the wing gently straight forward. Observe the flight of the Flying Wing.



PROBLEMS AND CURES

FLIGHT PATH

FLIES STRAIGHT GLIDES SMOOTHLY BANKS TO THE RIGHT

BANKS TO THE LEFT

STALLS

DIVES TO THE FLOOR

CORRECTION

DON'T MESS WITH IT!
SLIGHTLY FLATTEN THE
RIGHTWING TIP BEND
SLIGHTLY FLATTEN THE LEFT
WING TIP BEND
MOVE DIME SLIGHTLY FORWARD
MOVE DIME SLIGHTLY BACKWARD

DISCUSSION:

The shape of the Flying Wing is adapted from the zanonia seed which is found in southeast Asia. When mature, the seed drops from the vine and glides to a new location to reproduce itself.

To provide stability in flight, the wing tips of the Flying Wing are upturned. These tips appear to serve as drag rudders that keep the trailing edge of the wing trailing in flight. The presence of the upturned wing tips also directs air flowing over the wing tips upward. This results in a downward thrust that attempts to pitch the trailing edge of the Flying Wing downward around its center of gravity. The dime is taped to the underside of the leading edge of the Flying Wing to increase its weight there and balance the pitching tendency during gentle, gliding flight. At higher forward velocities, the downward thrust of the wing tips is magnified, pitching the trailing edge down and the leading edge up. The Flying Wing begins looping maneuvers and continues until drag slows it and the Flying Wing gently glides to the ground.



The Virginia Aviation Museum

<u>Saturday, September 30, 2006 9:30 a.m.</u> <u>-5:00 p.m.</u>

SR-71 Forum 2006

Once highly classified, the secrets of the SR-71 Blackbird are now revealed. New this year! Examine the Blackbird's J-58 engine, start cart, navigation system and more!

Reservations recommended. Call (804) 236-3620.

Monday, October 2, 2006 AOPA Safety Seminar

"Emergencies"

The Virginia Aviation Museum is located at the entrance to Richmond International Airport.

For additional information on museum hours and programs call (804) 236-3622.

2006 National Conference on Aviation and Space Education

National Conference on Aviation and Space Education (NCASE) 2006 Don't delay, register for NCASE! The \$110 early registration rate ends September 17th and will go up to \$160 thereafter!

Attend hands-on, minds-on concurrent sessions and interact with "the best in the field". Seminars include: National Science Teachers Association (NSTA): NSTA SciPacks: Just-in-Time Online learning of Core Science Content, ESTES: Estes Rocketry 101, Baylor College of Medicine: From Outer Space to Inner Space, and much more. All concurrent sessions are posted online at www.ncase.info

Hear key note motivational speakers: Dr. James Garvin, NASA GSFC Chief Scientist, Hoot Gibson, NASA Astronaut (retired). The conference includes over 25 exhibitors, several authors for book signings, door prizes and more. Learn about connecting aviation and space with your entire curriculum and applying National Content Standards and No Child Left Behind.

Educators will be eligible to earn one Graduate Credit or 30 CEUs.

Visit the NCASE web site for more information: www.ncase.info

The National Conference on Aviation and Space Education will take place at the Crystal Gateway Marriott Hotel in Arlington, Virginia on October 19-21, 2006.

Conference Tracks include:

- · Science of Aviation and Space
 - Sessions included in this track will bring together experts in the field of aviation and space education sharing information about the science of aerospace.
- · Teaching and Learning
 - Connecting National Standards, Standards of Learning, No Child Left Behind to Aerospace Education in the Classroom
 - Organizations such as The National Reading Association will address the Reading/Language Arts connection to teaching aerospace.
- Teaching and Learning methodologies and technologies using aerospace education as the theme
 - Professionals such as the National Science Teachers Association (NSTA) inform on the latest in distance learning opportunities. The International Technology Education Association shows participants how to bring the latest in technology to youth.
- · Outreach for Aerospace Education
 - Federal Aviation Administration (FAA), NASA, CAP aerospace education leaders, the Aerospace Education Foundation (AEF), and other organizations such as the Experimental Aircraft Association (EAA), will share ideas and techniques for presenting aerospace education to the community and educators.
- · Importance of Educating Youth for Aerospace Careers
 - Meet some of the aerospace leaders and find out about the needs of the aerospace industry by learning about the past, present and future of aviation and space.

SCIENCE MUSEUM OF VIRGINIA CALENDAR

EXHIBITIONS

Temporary Exhibits:

Animal Grossology (opens Sept. 30) Amazing Music Studio (through April 2007)

IMAX FILMS

Fighter Pilot: Operation Red Flag Greece: Secrets of the Past

Superman Returns: The IMAX Experience

<u>CARPENTER SCIENCE THEATRE</u> <u>COMPANY</u>

Frankenstein Lives! (Oct. 4-29) Stories of Winter Magic (Nov. 18-Jan. 1)

PLANETARIUM SHOW

Icy Worlds & Nightwalk (Oct. 1-31) Icy Worlds & First Star I See Tonight (Nov. 18-Jan. 1)

LIVESKY: Informal "live" planetarium presentation of the month's celestial events. Third Friday of every month (except Oct.)

SKYWATCH: Third Friday of every month (weather permitting) on the front lawn.

24-Hour Information: (804) 367-0000
Box Office: (804) 367-1080
24-Hour Skywatch Information: (804) 367-8277
24-Hour TDD Information: (804) 367-9760
General Information - TDD: (804) 367-6552
Group Scheduling: (804) 367-6552
Home Page: http://www.smv.org

VIRGINIA AIR AND SPACE CENTER CALENDAR

EXHIBITS:

Adventures in Flight Gallery

TRAVELING EXHIBITS:

Zap! Surgery Beyond the Cutting Edge

IMAX FILMS:

Roving Mars

The Human Body

The Ant Bully

Open Season (opens Sept. 29)

Haunted Castle (opens Oct. 6)

Happy Feet (opens Nov. 17)

Polar Express (opens Nov. 22)

THE SIGMA SERIES LECTURES:

Traditional Native Scientists by Scott Frazier

Thursday, September 7, 2006, 7:30 p.m.

LIVE SCIENCE DEMONSTRATIONS

Star Station One: International Space Station Learn about the International Space Station.

Call (804) 727-0900 for showtimes Visit the Center's Home Page: http://www.vasc.org

Calendar of Events

September 8, 9, 10, 2006

Naval Air Station Oceana Air Show "A Salute to the Blue Angels: 60 Years of Aerial Excellence." For more information visit www.oceanaairshow.com.

September 24, 2006

Wings, Wheels, and Ducks will be held at Stafford Regional Airport.

September 30-October 1, 2006

Virginia Regional EAA Fly-In will take place at the Dinwiddie County Airport, Petersburg, Virginia. For more information visit www.vaeaa.org.

September 30, 2006

Wings and Wheels will be held at Hummel Field in Topping and features aircraft and antique cars. For more information contact Ann Smith at (804) 694-5995, e-mail info@wingsandwheels.us or visit www.wingsandwheels.us.

October 2-5, 2006

AOPA Safety Seminar "Emergencies" will be held in the Virginia Aviation Museum in Richmond, General Aviation at Danville Regional Airport, Virginia Tech Airport in Blacksburg, and Dulles Aviation at Manassas Regional Airport.

October 14, 2006

Culpeper Regional Airport Airfest 2005 will be held at the Culpeper Regional Airport. Family event includes an airshow with aerobatics, Young Eagles rides, model airplanes, airplane simulators, static display aircraft, and refreshments. For additional information contact Tanya Woodward at (540) 825-8280 or visit www.culpepercounty.gov.

October 19-21, 2006

National Conference on Aviation and Space Education will be held at the Crystal Gateway Marriott in Arlington, Virginia. For more information visit www.ncase.info.

Aviation Education Supporters:

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.
Regular Membership \$25.00 annually (July - Dec. \$12.50)
Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)
Corporate Membership \$100.00 annually (July - Dec. \$50.00)
New Member Renewal
Date:
Name:
Name of Organization:
Occupation:
Address:
City:State Zip
Telephone
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